WHAT IS CLAIMED IS:

1. A method of operating a digital micromirror device having at least one micromirror, the method comprising:

applying a reset voltage pulse to the micromirror, wherein the reset voltage pulse causes the micromirror to launch from a landing plate;

applying an offset voltage to the micromirror immediately after the reset voltage pulse, wherein the offset voltage is applied for a damping delay period, wherein the micromirror launches and is moving away from the landing plate before an expiration of the damping delay period;

applying a damping pulse to the micromirror immediately after the offset voltage; and reapplying the offset voltage to the micromirror, whereby the damping pulse reduces oscillation of the micromirror about a neutral position.

- 2. The method of claim 1, wherein the damping pulse has the same polarity as the reset voltage pulse.
- 3. The method of claim 1, wherein the damping pulse has the same polarity and magnitude as the reset voltage pulse.
- The method of claim 1, further comprising:
 loading an address state for the micromirror during the reapplying of the offset voltage;

applying a bias voltage to the micromirror, wherein the micromirror assumes the address state.

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- 5. The method of claim 1, wherein the reset voltage is about -26 volts and the offset voltage is about 7 volts.
- 6. The method of claim 5, wherein the damping pulse voltage is about -26 volts.
- 7. The method of claim 1, wherein the damping delay period is greater than 1 microsecond.
- 8. The method of claim 7, wherein the damping delay period is about 1.6 microseconds and the damping pulse is about 3.9 microseconds long.

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9. A method of operating a digital micromirror device having at least one micromirror, the method comprising:

applying a reset voltage pulse to the micromirror, wherein the reset voltage pulse causes the micromirror to launch from a landing plate;

applying an offset voltage to the micromirror immediately after the reset voltage pulse, wherein the offset voltage is applied for a damping delay period, wherein the micromirror launches and is moving away from the landing plate before an expiration of the damping delay period;

applying a damping pulse to the micromirror immediately after the offset voltage, wherein the damping pulse voltage is the same as the reset voltage; and

reapplying the offset voltage to the micromirror, whereby the damping pulse reduces oscillation of the micromirror about a neutral position.

10. The method of claim 9, further comprising:

loading an address state for the micromirror during the reapplying of the offset voltage; and

applying a bias voltage to the micromirror, wherein the micromirror assumes the address state.

- 11. The method of claim 9, wherein the reset voltage is about -26 volts and the offset voltage is about 7 volts.
- 12. The method of claim 9, wherein the damping delay period is greater than 1 microsecond.
- 13. The method of claim 12, wherein the damping delay period is about 1.6 microseconds and the damping pulse is about 3.9 microseconds long.

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